ED 115 795

95

CE 005 618

AUTHOR

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TITLE

An, Empirical Determination of Tasks Essential to

Successful Performance as a Swine Farmer.

Determination of a Common Core of Basic Skills in

Agribusiness and Natural Resources.

INSTITUTION

Ohio State Univ., Columbus. Dept. of Agricultural Education.: Ohio State Univ., Columbus. Research

Foundation.

SPONS AGENCY

Office of Education (DHEW), Washington, D.C.

BUREAU NO

V0033VZ

PUB DATE

75

GRANT NOTE OEG-0-74-1716
26p.; For an explanation of the project, see CE 005

614-615, and for the other occupations, see CE 005

616-643

EDRS PRICE DESCRIPTORS

MF-\$0.76 HC-\$1.95 Plus Postage

Agricultural Education; Agricultural Occupations;.

*Agricultural Production; Agricultural Skills;

Farmers; Farm Occupations; Job Analysis; *Job Skills; *Livestock; *Occupational Information; Occupational Surveys; Tables (Data); *Task Analysis; Vocational

Education

IDENTIFIERS

Swine Farmers

ABSTRACT

To improve vocational educational programs in agriculture, occupational information on a common core of basic skills within the occupational area of the swine farmer is presented in the revised task inventory survey. The purpose of the occupational survey was to identify a common core of basic skills which are performed and are essential for success in the occupation. Objectives were accomplished by constructing an initial task inventory to identify duty areas and task statements for the occupation. The initial task inventory was reviewed by consultants in the field, and 287 tasks were identified. A random sample of 75 swine farmers based on the 1974-75 directory of the Ohio Young Farmers Association, Inc. was obtained. Data were collected utilizing a questionnaire. Thirty-five questionnaires were returned of which 32 were usable. A compilation of basic sample background information is presented on the size and type of swine operation, years as a swine farmer, and preparation as a swine farmer. A compilation of duty areas of work performed and work essential for the occupation is given. Percentage performance by incumbent workers and the average level of importance of specific task statements are presented in tabular form. (Author/EC)

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DETERMINATION OF A COMMON CORE OF BASIC SKILLS IN AGRIBUSINESS AND NATURAL RESDURCES

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As A

Of Tasks

Swine Farmer

DEPARTMENT OF AGRICULTURAL EDUCATION

THE OHIO STATE UNIVERSITY

COLUMBUS, OHIO 43210



AN EMPERICAL DETERMINATION OF TASKS ESSENTIAL TO SUCCESSFUL PERFORMANCE AS A SWINE FARMER

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in cooperation with
The Ohio State University Research Foundation
The Ohio State University
Columbus, Ohio
1975



PREPARED AS APPENDIX II

· Of a Final Report

On A Project Conducted Under

Project No. V0033VZ

Grant No. 0EG-0-74-1716

This publication was prepared pursuant to a grant with the Office of Education, U.S. Department of Health, Education and Welfare. Contractors undertaking such projects under government sponsorship are encouraged to express freely their judgment in professional and technical matters. Points of view or opinions do not, therefore, necessarily represent official U.S. Office of Education position or policy.

U.S. Department of Health, Education and Welfare U.S. Office of Education

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FOREWORD

The Department of Agricultural Education at The Ohio State University is involved in a major programmatic effort to improve the curricula in education programs in agriculture. One. product in this effort is this report of the swine farmer task, inventory survey. The data reported were collected as part of a more comprehensive thrust designed to develop a common core of basic skills in agribusiness and natural resources.

It is hoped that the revised task inventory contained in this report will be useful to curriculum developers working for improved occupational relevance in schools. Twenty-seven additional inventories in other occupational areas are also reported from this project.

The profession owes its thanks to J. Rick Byrd, graduate' research associate, for his work in preparing this report.

Special appreciation is also expressed to Richard Hummel, Executive Vice-President and Treasurer of the Ohio Young Farmers

Association, Inc. and Area Supervisor for Vocational Education in Agriculture in Ohio, for his input and help in securing the cooperation of swine farmers throughout Ohio.

J. David McCracken Project Director



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INTRODUCTION

Occupational information is needed to develop and revise vocational and technical education curricula. Teachers and curriculum developers generally determine which skills might be taught in a program based upon teacher expertise, advisory committee input, informal and formal community surveys, and/or task inventories.

The Agricultural Education Department at The Ohio State University has utilized and revised a system for obtaining and using occupational information as an effective aid in planning, improving, and updating occupational education curricula. report presents the results of a task analysis survey of the The information contained herein may occupation, swine farmer. be used by curriculum development specialists, teachers, local and state administrators, and others involved in planning and conducting vocational and technical programs in agriculture.

Purpose and Objectives

The major purpose of the occupational survey was to identify the skills which are performed and essential for success as a swine farmer. The specific objectives of this survey were as follows:

- 1. Develop and validate an initial task inventory for the swine farmer.
- 2. Identify the specific tasks performed by the swine farmer.
- 3. Determine the relative importance of the specific tasks to successful employment as a swine farmer.

Definition of the Occupational Area

The swine farmer usually receives a major portion of his farm income from the swine enterprise. The swine farmer may maintain both a breeding herd and feeders. The specific duties he performs in relation to the swine enterprise usually involve maintaining the herd health, formulating feeds and feeding the herd, selecting animals, managing the herd breeding program, and marketing hogs.

Because most swine farmers operate farms where crops are raised, the operational management responsibilities of the swine farmer include more than managing the swine herd. The swine farmer is usually responsible for the planting, cultivating, harvesting, storing, and marketing of crops. The swine farmer also has a large investment in equipment and buildings and must manage that portion of the swine farm business. The swine farmer must operate equipment and machinery and maintain and repair such equipment. The swine farmer also will be involved in minor building construction and maintenance of the farm buildings and structures.

METHODOLOGY

Objectives were accomplished by constructing an initial task inventory, validating the initial inventory, selecting a sample of workers, collecting data, and analyzing data.

Initial Task Inventory

Duty areas and sesk statements for the swine farmer were identified by searching existing task lists, job descriptions,



curriculum guides, and reference publications. Additionally, contacts with several swine specialists at The Ohio State University aided in clarifying the specific responsibilities of the swine farmer. All the tasks that the project staff thought to be performed were assembled into one composite list.

The initial tasks were grouped into functional areas called "Duties".

After the task statements were grouped under the proper duty areas, each task statement was reviewed for brevity, clarity, and consistency. In all, 377 task statements were included in the initial task inventory.

Initial Inventory Validation

After the initial task inventory was constructed, it was reviewed by ten swine farmers.

The consultants were casked to respond to the initial task list inventory by performing the following activities:

- 1. Indicate whether any of the tasks listed were not appropriate.
- 2. Add any additional tasks they believed were performed by the swine farmer.
- 3. Make changes in the wording of tasks to help add clarity to the statements.

The comments from the ten swine farmers were pooled and needed revisions were made. Two of the duty areas were combined and one duty area was eliminated. The duty areas relating to the overall management of the swine farm which were not unique to the swine enterprise but common to several production agriculture occupations were removed from the swine farmer questionnaire and incorporated into a separate farm manager (owner-operator) questionnaire.

As a result of the initial task inventory review process, 287 tasks were identified.

Worker Sample Selection

An attempt was made to survey swine farmers from all areas of the state with various size swine operations. A sample of 75 swine farmers was obtained from the 1974-75 directory of the



Ohio Young Farmer's Association, Inc. using a multi-stage random sampling approach. The stages used in the sampling approach were local Ohio Young Farmer Association; Inc. chapter and individual member.

Data Collection

A packet of materials was sent to the randomly-selected swine farmers. The packet of materials included::

- 1. A cover letter from the Ohio Young Farmers Association, Inc.
- 2. A questionnaire printed on yellow.
- 3. A stamped and self-addressed return envelope.

The swine farmer was instructed to complete the questionnaire and return it in the stamped and self-addressed return envelope by the date specified in the cover letter.

A follow-up of non-respondents consisted of mailing a packet of materials two weeks after the initial mailing. The follow-up consisted of a packet of materials identical to the initial packet except that a cover letter on Ohio State University stationery replaced the cover letter on Ohio Young Farmer Association, Inc. stationery.

Data Analysis

The 35 questionnaires which were returned were checked for completeness and accuracy by the project staff. Information from the 32 usable responses was coded on Fortran coding sheets for key punching. In addition to coding appropriate respondent background information, each specific task statement was doded as to whether it was performed (1 = Task performed by respondent; blank = Task not performed by respondent) and the level of importance of the task (3 = Essential; 2 = Useful; 1 = Not Important). The information was keypunched on IBM cards and verified by personnel at the Instruction and Research Computer Center at The Ohio State University.

The data was analyzed using the SOUPAC computer program and the facilities of the Instruction and Research Computer Center. Consultant assistance for analyzing the data was provided by personnel at The Center for Vocational Education. The SOUPAC computer analysis resulted in the computation of relative frequencies,



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means, and rankings for each task statement. The results of the computer analyses were printed in tabular form for ease of interpretation.

FINDINGS.

Objectives of the study resulted in the compilation of basic sample background information, the determination of tasks performed by the swine farmer, and the identification of tasks essential to successful performance as a swine farmer.

Description of the Sample

Information regarding the performance of tasks and the importance of the tasks to successful employment as a swine farmer was obtained from swine farmers across Ohio.

Response to the Survey

A total of 75 questionnaires were mailed and 35 replies were received. This represented a 46.7% rate of return. The response to the questionnaire is summarized in TABLE I.

TABLE I
SWINE FARMER RESPONSE TO THE QUESTIONNAIRE

6		N. •	Percent Of Swine Farmers In The Survey
Coning Farmana in Suprair	, ,	75	100.0
Swine Farmers in Survey Total Returns		35 32	46.7
Usable Returns Unusable Returns	-	3	4.0
Nonrespondents	-	40	53.3

Size and Type of Swine Operation

Swine farmers from various size swine operations were included in the study. The size of the swine herd was used as an index to assess the size of the swine operation. Of the 35 questionnaires received, 32 included information regarding the size of the swine operation. TABLES II and III summarize the



responses to the question, "How many feeders, sows, and gilts do you have?" Twenty-nine of the respondents indicated they had a swine breeding herd on their farm. The size of the swine breeding herd ranged from 6-120 sows and gilts. The average swine breeding herd size was 53.6. Twenty-six of the respondents indicated they fed out hogs on their farm. The number of feeder pigs ranged from 90-800. The average number of feeders was 613.

TABLE II
SIZE OF OPERATION
(Sows and Gilts)

Number of Sows and Gilts	-	N	Percent of Respondents
1-20 21-40 41-60 61-80 81-100 101 or more		5 6 7 5 5 1	17.2 20.8 24.2 17.2 17.2 13.4
Total .	•	29	100.0

 \overline{X} number of sows and gilts = 53.6

TABLE III
SIZE OF OPERATION
(Feeder Pigs)

Number of Feeder Pigs N	Percent of Respondents
1-100 3 101-200 3 201-300 2 301-400 6 401-500 4 500 or more 8	11.5 11.5 7.7 23.1 15.4 30.8
Total 26	100.0

 \overline{X} number of feeder pigs = 613.0



Years as a Swine Farmer

Swine farmers with varying amounts of experience in swine farming were included in the study. TABLE IV summarizes the responses to the question, "How many total years have you been a swine farmer?" Eleven or 34.3% had been swine farmers 16 or more years. Seven or 21.9% had been swine farmers from one to five years. Seven or 21.9% had been swine farmers from six to ten years. Seven or 21.9% had been swine farmers from 11-15 years. The range was 1-20 years with a mean of 12.2 years.

TABLE IV

TOTAL AMOUNT OF WORK EXPERIENCE IN SWINE FARMING

<u> </u>			
Years		N	Percent of Respondents
	-	i i i i i i i i i i i i i i i i i i i	
· 1-5	•	7	21.9
6-10	•	7	21.9
71=15		7	21.9
16 or more		<u>11</u>	<u>34.3</u> '
Total		32	100.0
		<u> </u>	

 $\overline{\overline{X}}$ years as a swine farmer = 12.2

Preparation as a Swine Farmer

Swine farmers obtained training for their occupation from various sources. TABLE V summarizes their responses to the question, "Where did you receive your preparation for farming?" Thirty-two swine farmers or 100% indicated they received training on-the-job. Twenty-four swine farmers or 75% indicated they attended a high school program to receive training as a swine farmer. Seventeen swine farmers or 53.1% indicated they had received training as a swine farmer by attending adult education courses. Seven or 21.8% indicated they received training through a college/university program.

Duty Areas of Work Performed by the Swine Farmer

The 287 tasks were grouped under 15 duty areas. Each respondent indicated whether he performed the specific task in his



TABLE V SOURCE OF TRAINING RECEIVED AS A SWINE FARMER

			•	Percent of All Farmers
Source	<u> </u>	<u> </u>		In The Survey
On-The-Job High School Pro Technical Schoo College/Univers Adult Education Other	l Program ity Program	32 24 1 7 17		100.0 75.0 3.0 21.8' 53.1 3.0

current position as a swine farmer. The percentages of respondents performing each task were averaged for all tasks under each duty area. The mean percentage of incumbents who performed specific tasks in specified duty areas is presented in TABLE VI.

Duty areas of work in which 50% or more of the incumbent workers performed the tasks were:

- 1. Observing Legal Practices in Swine Operations
- Following General Safety Precautions
- 3. Maintaining Swine Operations Equipment and Vehicles
- 4. Using and Maintaining Hand and Power Tools
- Operating Equipment and Vehicles
- Assembling and Installing Swine Operations Equipment 6.
- 7. Maintaining Hog Herd Health
- 8. Formulating Feeds and Feeding Hogs
- Constructing and Maintaining Swine Operation 9. Buildings and Structures
- 10. Marketing and Shipping Hogs
- Selecting Breeding and Feeder Stock Breeding Sows and Gilts 11.
- 12.
- 13. Handling and Disposing of Animal Wastes
- 14. Handling and Caring for Animals

Duty Areas of Work Essential for Successful Performance as a Swine Farmer

A level of importance rating was obtained for each task. The respondent could rate the task as essential, useful, or not important for successful performance as a swine farmer. A ranking of essential was assigned, a numerical rating of "3", useful a



numerical rating of "2", and not important a numerical rating of "1". The level of importance ratings for each task were averaged for all tasks under each duty area. The average level of importance ratings for the specific tasks in the specified duty areas are presented in TABLE VI.

Duty areas of work which received a 2.0 or higher level of importance rating by incumbent workers were:

- 1. Observing Legal Practices in Swine Operations
- 2. Following General Safety Precautions
- 3. Maintaining Swine Operations Equipment and Vehicles
- 4. Using and Maintaining Hand and Power Tools
- 5. Operating Equipment and Vehicles
- 6. Assembling and Installing Swine Operations Equipment
- 7. Maintaining Hog Herd Health
- 8. Formulating Feeds and Feeding Hogs
- 9. Constructing and Maintaining Swine Operation Buildings and Structures
- 10. Marketing and Shipping Hogs
- 11. Selecting Breeding and Feeder Stock
- 12. Breeding Sows and Gilts
- 13. Handling and Disposing of Animal Wastes
- 14. Handling and Caring for Animals

Percentage Performance and Level of Importance Ratings of Specific Tasks

The percentage performance by incumbent workers and the level of importance for each specific task is also presented in TABLE VI.

It is recommended that the results for each specific task be examined by educators and others who are developing educational programs to determine curriculum content for preparing swine farmers. Specific tasks with a high level of performance and a high level of importance rating should be given more emphasis in the educational program than specific tasks with a low level of performance and a low level of importance rating:

TABLE VI

TASK STATEMENTS	Fercent Performing	Average Lével of Importance
Observing Legal Practices in Swine Operations		
Interpret feed additive withdrawal laws and regulations	96 93 90 85 32	2.8 2.8 2.5 2.0 2.0
Mean Rating	9.2	2.4
Identify potential safety hazards	18 18 18 187	2.7 2.7 2.2 2.3 2.1 2.1 2.6 2.2
Wear appropriate work clothes	70 7	2.3 2.3 2.6 2.2
situations		2.1 2.7 2.6 2.7 2.5
Mean Rating	9.7	2.4
Maintaining Swine Operations Equipment and Vehicles		
		2.5

^{*}Average rating of importance may range from 1-3 with 3 being the highest



TASK STATEMENTS	Percent Performing	Average Level of Importance
Adjust clutch pedal free travel Bleed diesel fuel system Change oil and oil filters Change thermostats Clean debris from equipment Grease equipment Inflate tires. Inspect cooling system for leaks Install and adjust belts Install and adjust chains. Install and service battery Interpret maintenance directions in operator's manuals Remove equipment from storage Repack bearings Replace and adjust spark plugs Replace diesel fuel nozzles Replace diesel fuel nozzles Replace universal joints Service air cleaners Service fuel strainer, fuel filters, and sediment bowl on fuel systems	. 67 . 97 . 93 . 96 . 90 . 93 . 90 . 93 . 90 . 90 . 87 . 62 . 90 . 90	2.4 2.7 2.1 2.7 2.6 2.7 2.6 2.7 2.3 2.3 2.3 2.4 2.7 2.3 2.3 2.4 2.7 2.3 2.3 2.4 2.7 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6
Time engines	• 04	1.9 2.4 1.8
Mean Rating	78.0	2,7
Using and Maintaining Hand and Power Tools Adjust tools	93 90, 87 87 56 78 75 84	2.5 2.5 2.6 2.6 2.1 2.3 2.3 2.4

TABLE VI (Cont.)

TASK STATEMENTS	Percent Performing	Average Level of Importance
Use hand tools safely	87 93 65	2.7 2.7 2.3
Mean Rating	81.4	2.5
Anterpret gauge readings on equipment. Operate equipment and vehicles on public highways. Add wheel and front end weights. Adjust equipment safety shields. Connect front end operated equipment Connect hydraulic systems and hydraulic operated equipment. Correct equipment safety hazards Connect 3-point hitch equipment. Hitch towed equipment. Identify equipment safety hazards. Install safety shields Interpret hand operating signals Interpret safety instructions in operator's manuals. Interpret safety symbols on equipment. Operate equipment under field conditions Refuel power units Use appropriate power equipment for specific purposes. Mean Rating.	93 96 96 93 75 98 97 98 96 96 99 99 99	2.8.7.8.3.8.5.6.5.5.7.4.6.5.8.9.8.7.8.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2
•	ر ، و و	
Adjust belts	87 96 96 84 87 81 87 78	2.6 2.7 2.6 2.7 2.5 2.6 2.5 2.5 2.5



TASK STATEMENTS	Percent ' Performing'	Average Level of Importance
Use proper equipment and tools to assemble and install equipment	87 81	2.4
Mean Rating	84.8	2.6
Maintaining Hog Herd Health		
Evaluate influence animal health has on production Identify common livestock internal and external parasites. Identify sanitation problems which may affect herd health. Identify symptoms of nutritional imbalance Select materials to control internal and external parasites. Work with veterinarians in developing herd health program. Disinfect buildings and equipment Select proper chemicals to clean buildings and equipment. Use insecticide repellents in buildings Apply insecticides to hogs to control external parasites. Identify symptoms of common hog diseases Identify symptoms of major hog parasites Evaluate life cycles of parasites to determine control	90 81 93 81 93 71 86 83 93 87	2.8 2.8 2.6 2.7 2.5 2.7 2.7 2.7 2.7
procedures. Calculate cost of treatments Supply medication through feed and water Isolate animals with transmissible diseases. Select appropriate method to control diseases. Worm animals Vaccinate animals. Determine amount of medication or materials needed in specific situations	56 62 87 75 81 96 81	2.3 2.7 2.7 2.8 3.0 2.7
Interpret labels on medication and insecticide containers. Give intramuscular injections. Determine when to rotate hog pastures to control diseases and parasites. Observe new animals for symptoms of diseases and parasites. Determine when the veterinarian should be called	93 90 50 81 87 78 84	2.9 2.9 2.2 2.7 2.9 2.6 2.6
Mean Rating	82.1	2.7



TASK STATEMENTS	Percent Performing	Average Level of Importance
Formulating Feeds and Feeding Hogs		
• • • • • • • • • • • • • • • • • • • •	1	
Develop rations	87	2.7
Calculate cost of rations and feed mixtures	75	2.6
Calculate feed efficiency	65	2.6
Classify feeds	59	2.2
Determine amount of feed additives to add to mixtures	84	2:8
Determine amount to feed per animal	84	2.5
Determine appropriate form for preparing feed	59	2.1
Substitute for various feedstuffs in rations	43	2.3
Determine nutrient level requirements for animals	62	2.4
Determine purpose of various classes of feedstuffs in rations	1 -	
and mixtures	46	2.3
Determine why various nutrients are needed in rations and		
mixtures	50	2.4
Determine relative nutritive value of feedstuffs	62	2.4
Determine total amount of feed needed for herds	81	2.5
Determine water requirements for animals	71"	2.3
Determine when feed additives should be withdrawn from animals	87	2.9
Determine when rations and mixtures should be changed	87	2.2
Determine which feeds and additives may be included in	, ,	2.2
animal feed mixtures	81	2.6
Determine which feedstuffs and amount of feedstuffs which may be		2.0
	56 .	0 k
substituted in rations	סכ	2.4
Evaluate the influence the quality of feedstuffs has on	ا ج	o 1.
production	59	2.4
Evaluate how ration imbalance may affect production	59	2.3
Evaluate influence residues in meat have on marketing problems	43	2.2
Identify factors that influence feed requirements and		_ =
feed efficiency	71	2.3
Identify factors that influence the quality of feedstuffs	59	2.3
Determine purpose of various nutrients in rations and	11	
mixtures	59	2.3
Evaluate the influence the digestive system has on feedstuffs	[,]	
that may be fed	40	2.1
Interpret feed analysis reports	62	2.3
Interpret feed tags and labels:	75	2.3
Interpret feeding charts and tables	68	2.5
Select appropriate feeding methods	78	2.5

	TASK STATEMENTS	Percent Performing	Average Level of Importance
	Determine how feed palatability may be improved	65 75 59	2.4 2.5 2.4
	Evaluate how feed additives influence production and efficiency. Determine amount of weight animals should gain Fill feed troughs, bunks, and self feeders Fill and clean waterers. Prepare feed mixtures. Flush animals. Precondition animals for shipping. Evaluate influence of using pasture on feeding requirements. Wean animals Precondition animals for feedlot	65 75 81 87 84 56 25 53 81	2.6 2.5 2.6 2.7 2.7 2.3 1.9 1.9 2.0
	Evaluate affect of various feeding practices on carcass composition and feed efficiency	56 78	2.4 2.5 2.5 2.3 2.4 2.4 2.3 1.8 2.8
Co	ean Rating	66.5	2.4
	Apply wood and metal preservatives Clean and oil electric motors on structures. Build and remove concrete forms. Determine cost of repairs. Develop bill of materials needed for repairs. Repair and hang gates and doors. Install electrical motors.	68 81 71 86 89 87 71 25	2.3 2.4 2.2 2.6 2.4 2.6 2.2 1.8

TABLE VI (Cont.)

•			
	TASK STATEMENTS	Percent Performing	Average Level of Importance
	Reset circuit breakers	62 56 75 87 97 90 95 95 90 97 78 81 81 90 87 77	0111455767664434736
Mea	n Rating	80.7	.2.4
Mar.	keting and Shipping Hogs	-3€	
	Calculate expected returns and profits on sales. Classify animals for market purposes Determine feasibility of participating in futures market Evaluate influence of market grade on returns. Load animals Prepare carriers for hauling animals Select markets Prepare advertising announcements for selling animals. Interpret market reports Analyze market cycles Select appropriate marketing system Select truckers. Identify characteristics of USDA grades Determine affect middlemen and retailers have on	68 68 40 97 78 88 88 83 43	2.35 9 2.7 3 4 6 4 3 6 7 0
,	producers' prices	66	2.3
	another year's income	68	2.3



			erage Level Importance
		- 50	an
ļ		i.	r t
	TASK STATEMENTS	L L	မွ်း မြို့
1	•	Percent Performing	erage Impo
1		er er	Ave of
1		, H, H,	4 0
			2.6
	Determine most economical weights to market	93 34	1.9
1.	Calculate shrinkage	18	1.7
	Calculate dressing percent	40	2.0
	Estimate market grades	65.	2.2
	Determine the affect meat substitutes have on prices and	١ ٧٠/	2.2,
,)	77	65	2.2
1	demands	25	1.8
1	Take pictures of animals for advertising amountements	84	2.4
	Sort animals according to size and weight Determine when animals are ready to market	93	2.8
ļ ·	Determine number of animals to load	84	2.5
1	Consign outstanding individuals at sales	31	1.8
	Consign outstanding individuals at sales	J	1.0
Mes	n Rating	59.2	2.2
1.00			
Sel	ecting Breeding and Feeder Stock		
1		1	·
1	Calculate percentage and value of lean and prime cuts found	\ , _ `	
1	in animals	43	2.1
1	Determine age of animals	81	2.5
Ì	Establish production goals for culling purposes	75	2.4
1.	Evaluate advantages of various breeds	68	2.4.
	Evaluate general condition of animals	78	2.5
1	Evaluate influence of consumers' demands on type of animal	1	0.1
	to select	71	2.4
1	Evaluate overall performance and health records of animals	78	2.4.
	Evaluate the degree various traits and characteristics are	68	2.3
	inherited	62	2.0
	Identify major retail cuts of animals	71	2.0
1	Identify parts of animals	81	2.6
	Identify reputable sources for obtaining stock	87	2.7
1	Inspect animals for defects	81	2.6
	Inspect animals for desirable traits and characteristics	75	2.5
1	Select breeding system to follow	46	2.2
1	Select foundation stock	68	2.6
1	Select ioundation stock	12	1.8
1: .	Take back fat probe	12	2.0
	Identify breeds	81	2.5
	-		
14-	an Rating	65.2	2.3
Mer	III DEPOTING		

TABLE VI (Cont.)

		·
TASK STATEMENTS	Percent Performing	Average Level of Importance
Breeding Sows and Gilts	;	
Determine number of boars needed for sow herd	84 87 87 71 75	2.7 2.8 2.7 2.5 2.4 1.7
Mean Rating	69.8	2.5
Register animals for show	31 25 3 ¹ 4	1.9 1.8 1.8
Mean Rating	30.0	1.8
Handling and Disposing of Animal Wastes Evaluate how animal wastes decay	40 59 93 93	2.1 2.4 2.9 2.8 2.7
Mean Rating	75.0	2.6
Castrate animals	87 71 93 50	2.6 2.6 2.7 2.3 2.8 2.1
	•	1.9

TASK STATEMENTS	š	4	Percent Performing	Average Level of Importance
Help young to nurse. Identify signs of approaching birth. Identify due dates for animals Isolate newly purchased animals for obsequences animals for identification. Move brood sows to farrowing quarters. Move pigs to smaller litters Move feeder animals into proper feedlot Observe animals regularly. Pen animals according to size, weight, Remove afterbirth. Remove non-compatible animals. Trim feet. Weigh animals. Clip needle teeth. Cut tails on feeder pigs Give iron shots. Check underlines on sows De-tusk boars. Regulate temperature and air flow in far Place pigs in brooder or use heat lamps wash sows and gilts before moving to far Paint sow's underline with iron compour Ring animals. Bed animals. Prevent animals from stampeding.	ervation. s and sex arrowing quar arrowing quar	ters	68 87 84 87 59 81 84 71 50 16 81 30 84 85 89 84 68 68 68 68 68 68 68 68 68 68 68 68 68	37763°765834468326607684069.3